



Hamersley Iron – Yandi (HIY) Project

<u>Company:</u>	Hamersley Iron
<u>Location:</u>	Pilbara, WA.
<u>Commissioned:</u>	1998
<u>Machine Type:</u>	Rail mounted, luffing, non – slewing stacker.



General:

In 1998, ThyssenKrupp Engineering (Australia) completed the design and construction of a new Stacker for Hamersley Iron Pty Ltd, to operate for their Yandi iron ore mine in the Pilbara region of Western Australia. The machine is a rail mounted, luffing, non-slewing, stacker, with a design capacity of 3,000 tonnes per hour of iron ore. The boom conveyor forms a stockpile to one side of the yard conveyor only, where material is reclaimed onto an underground conveyor through vibrating stockpile activators.

The original design of the stacker was carefully planned to enable large modules to be assembled at off-site workshops. These large modules were fitted out as far as practicable with all services such as hydraulics, fire and washdown water, and electrics. Due to the comprehensive planning by Krupp, the time spent assembling the machine on-site was minimized and allowed the main structure to be fully erected within several days, and the complete machine was ready for no-load testing within a very short period from mobilisation to site.

Technical Data:

Material:	Iron ore	Travel speed:	max. 24 m/min
Capacity:	3,500 tph	Belt width:	1,200mm
Stacking method:	Chevron, cone ply	Belt speed:	4m/s
Boom length:	26 m	Luff range:	+18° / -10°
Tripper length:	55 m	Luff speed:	max. 5 m/min

For further information on any of our projects, please contact ThyssenKrupp Engineering (Australia) on +61 8 9277 0000 or E-mail at email@krupp.com.au

